

Serial No.: 10/595,279
Docket No.: 09792909-6676
Amendment "A" dated April 1, 2008
Reply to the Office Action of January 2, 2008

In the Claims:

This listing of claims replaces all prior versions and listings of claims:

1. (Currently amended) A magnetic core member for an antenna module, said member being stacked for a loop-shaped with an antenna coil characterized in that: having a loop-shape, said member having a first surface facing said antenna coil, said first surface having a recess, and said recess is provided on a surface thereof facing said stacked antenna coil, at least in an area facing the loop portion having an annular shape formed in a region of the first surface corresponding to the loop-shape of said antenna coil.
2. (Currently amended) The magnetic core member for an antenna module, as described in claim 1, characterized in that: wherein said recess is a ring shaped an annular groove formed in a region corresponding to the loop portion of said antenna coil.
3. (Currently amended) The magnetic core member for an antenna module, as described in claim 1, characterized in that: wherein said recess is comprises a plurality of dimples formed on the first surface of said member at a plurality of positions.
4. (Currently amended) The magnetic core member for an antenna module, as described in claim 1, characterized in that: wherein a depth of said recess is less than 0.1 mm.
5. (Currently amended) An antenna module, said antenna module having comprising:
a loop-shaped an antenna coil having a loop-shape, said antenna coil being formed on a base, said base being stacked by with a magnetic core member, said core member having a first surface facing the base, said first surface having said antenna module characterized in that: said magnetic core member is provided with a recess, said recess having an annular shape formed on in a region of the first surface on which said base is stacked, at least in an area facing the loop portion of and said region corresponding to the loop-shape of the antenna coil.

Serial No.: 10/595,279
Docket No.: 09792909-6676
Amendment "A" dated April 1, 2008
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6. (Currently amended) The antenna module as described in claim 5, characterized in that: wherein said recess is a ring-shaped an annular groove formed in a region corresponding to the loop portion of said antenna coil.
7. (Currently amended) The antenna module as described in claim 5, characterized in that: wherein said recess is comprises a plurality of dimples formed on the first surface of said core member at a plurality of positions.
8. (Currently amended) The antenna module as described in claim 5, characterized in that: wherein a depth of said recess is less than 0.1 mm.
9. (Currently amended) The antenna module as described in claim 5, characterized in that: wherein a metal shield plate is provided with disposed on a second surface of said magnetic core member on a surface thereof member, said second surface being opposite to the said first surface on which said base is stacked.
10. (Currently amended) The antenna module as described in claim 5, characterized in that: wherein a signal processing circuit unit electrically connected to said antenna coil is mounted on said base.
11. (Currently amended) The antenna module as described in claim 10, characterized in that: wherein said signal processing circuit unit is mounted on a surface of said base, facing said magnetic core member, and an opening is provided in said magnetic core member for accommodating said signal processing circuit unit.
12. (Currently amended) The antenna module as described in claim 5, characterized in that: wherein said magnetic core member is formed as a sheet by dispersing magnetic powders of Fe--Si--Cr system into a binder.
13. (Currently amended) A portable information terminal having a housing wherein a base for supporting a loop-shaped antenna coil, a magnetic core member stacked on said base, and a

Serial No.: 10/595,279

Docket No.: 09792909-6676

Amendment "A" dated April 1, 2008

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metal shield plate stacked on said magnetic core member are mounted in the housing, ~~said portable information terminal characterized in that: and said magnetic core member is provided with has a first surface facing the base, said first surface having a recess, said recess having an annular shape formed on in a region of the first surface on which said base is stacked, at least in an area facing the loop portion of said region corresponding to the loop-shape of the antenna coil.~~

14. (Currently amended) The portable information terminal as described in claim 13, ~~characterized in that: wherein said recess is a ring shaped an annular groove formed in a region corresponding to the loop portion of said antenna.~~

15. (Currently amended) The portable information terminal as described in claim 13, ~~characterized in that: wherein said recess is comprises a plurality of dimples formed on the first surface of said core member at a plurality of positions.~~

16. (Currently amended) The portable information terminal as described in claim 13, ~~characterized in that: wherein a depth of said recess is less than 0.1 mm.~~

17. (Currently amended) The portable information terminal as described in claim 13, ~~characterized in that: wherein said magnetic core member is formed as a sheet by dispersing magnetic powders of Fe--Si--Cr system into a binder.~~